

In re: Gerald H. Negley et al.
Application Serial No.: 10/659,240
Filed: September 9, 2003
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In the Claims:

1. (Previously Presented) A method for forming a transmissive optical element comprising:

filling a dome-shaped mold with a molten liquid that comprises a transparent plastic and a phosphor additive;

allowing the molten liquid to solidify to produce a solid dome-shaped transmissive optical element having phosphor dispersed therein and including a dome-shaped inner surface and a dome-shaped outer surface; and

forming a solid transparent dome-shaped shell including a dome-shaped inner surface and a dome-shaped outer surface directly on the dome-shaped inner surface and/or directly on the dome-shaped outer surface of the solid dome-shaped transmissive optical element having phosphor disposed therein.

2.-5. (Canceled)

6. (Previously Presented) A method according to Claim 1 wherein the filling is preceded by forming the solid transparent dome-shaped shell and wherein the filling comprises filling a dome-shaped mold that includes the solid transparent dome-shaped shell with a molten liquid that comprises a transparent plastic and a phosphor additive.

7.-8. (Canceled)

9. (Previously Presented) A transmissive optical element comprising:
a first solid dome-shaped shell that comprises a transparent plastic including a phosphor dispersed therein, the first solid dome-shaped shell including a dome-shaped inner surface and a dome-shaped outer surface; and

a second solid dome-shaped shell including a dome-shaped inner surface and a dome-shaped outer surface directly on the dome-shaped inner and/or outer surface of the first solid dome-shaped shell.

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10. (Previously Presented) A transmissive optical element according to Claim 9 wherein the phosphor is uniformly dispersed in the first solid dome-shaped shell.

11. (Previously Presented) A transmissive optical element according to Claim 9 wherein the phosphor is nonuniformly dispersed in the first solid dome-shaped shell to provide an indicia in the first solid dome-shaped shell.

12.-15. (Canceled)

16. (Previously Presented) A transmissive optical element according to Claim 9 in combination with a semiconductor light emitting device that is configured to emit light into and through the first and second solid dome-shaped shells, to emerge from the first and second solid dome-shaped shells.

17. (Previously Presented) A transmissive optical element according to Claim 16 in further combination with a mounting substrate that is adjacent the semiconductor light emitting device such that the semiconductor light emitting device is between the mounting substrate and the first and second solid dome-shaped shells.

18. (Previously Presented) A transmissive optical element according to Claim 17 in further combination with an encapsulant between the semiconductor light emitting device and the first and second solid dome-shaped shells.

19.-26. (Canceled)

27. (Previously Presented) A transmissive optical element according to Claim 9 wherein the second solid dome-shaped shell is directly on the inner surface of the first solid dome-shaped shell, the transmissive optical element further comprising a third solid dome-shaped shell directly on the outer surface of the first solid dome-shaped shell.